CLAIMS

1. A flame-retardant synthetic resin composition characterized by comprising 1-40 parts by weight of at least one type of organic phosphorus compound represented by the following general formula (1):

$$\begin{array}{c}
0 \\
P-R^1 \\
0
\end{array}$$
(1)

(wherein R¹ represents alkyl, substituted or unsubstituted aryl, substituted or unsubstituted aralkyl or a group represented by the following general formula (2):

$$\begin{array}{ccc}
H_2 & O \\
C & & N - R^2
\end{array}$$
(2)

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[wherein R² represents C1-10 alkyl or substituted or unsubstituted aryl.])

with respect to 100 parts by weight of the synthetic resin.

2. A flame-retardant synthetic resin composition according to claim 1, characterized in that said organic phosphorus compound is at least one compound selected from the group consisting of 10-methyl-9-hydro-9-oxa-10-phosphaphenanthrene-10-oxide, 10-phenyl-9-hydro-9-oxa-10-phosphaphenanthrene-10-oxide and 10-benzyl-9-hydro-9-oxa-10-phosphaphenanthrene-10-oxide.

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3. A flame-retardant synthetic resin composition according to

claim 1, characterized in that said organic phosphorus compound is a compound wherein R¹ in general formula (1) is a group represented by the following general formula (2):

$$\begin{array}{c|c}
H_2 & O \\
C & N - R^2
\end{array}$$
(2)

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(wherein R² represents C1-10 alkyl or substituted or unsubstituted aryl).

- 4. A flame-retardant synthetic resin composition according to any one of claims 1 to 3, characterized in that said synthetic resin is a thermoplastic resin.
- 5. A flame-retardant synthetic resin composition according to claim 4, characterized in that said thermoplastic resin is one or more selected from the consisting of polyethylene group resins, polypropylene resins, polyisoprene resins, polybutadiene resins, polystyrene resins, high-impact-resistant polystyrene resins. acrylonitrile-styrene resin (AS resin), acrylonitrile-butadiene-styrene resin (ABS resin), methyl methacrylate-butadiene-styrene resin (MBS resin). methyl methacrylate-acrylonitrile-butadiene-styrene (MABS resin), acrylonitrile-acrylic rubber-styrene resin (AAS resin), polymethyl (meth)acrylate resin, polyphenylene sulfide polyimide resins, polyether etherketone resins, polysulfone resins, polyarylate resins, polyetherketone resins, polyethernitrile resins, polythioethersulfone polyethersulfone resins, resins. polybenzimidazole resins, polycarbodiimide resins, polyamideimide resins, polyetherimide resins, polyamide resins, liquid crystal polymers,

polyurethane resins, polycarbonate resins, polyester resins, polyphenylene ether resins and alloyed resins of the above.

6. A flame-retardant synthetic resin composition according to any one of claims 1 to 3, characterized in that said synthetic resin is a thermosetting resin.

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- 7. A flame-retardant synthetic resin composition according to claim 6, characterized in that said thermosetting resin is one or more selected from the group consisting of polyurethane resins, phenol resins, melamine resins, epoxy resins, unsaturated polyester resins, diallyl phthalate resins, bismaleimide-triazine resins and modified polyphenylene ether resins.
- 8. A flame-retardant fiber characterized by comprising a flame-retardant synthetic resin composition according to any one of claims 1 to 5.
- 9. A flame-retardant film characterized by comprising a flame-retardant synthetic resin composition according to any one of claims 1 to 7.
 - 10. A flame-retardant molded article characterized by comprising a flame-retardant synthetic resin composition according to any one of claims 1 to 7.